

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~A holographic recording method comprising:
simultaneously irradiating a signal light beam and a reference light beam onto
an optical recording medium while an angle formed between the signal light beam and the
reference light beam is set constant; and
recording information of the signal light beam in the optical recording medium
as a plurality of pages of holograms, by changing a recording position while relatively shifting
at least one of (A) the signal light beam and the reference light beam, and (B) the optical
recording medium;
wherein page data is multiple recorded for each predetermined unit~~
A holographic recording method for multiple-recording a file comprising one
or more page data in an optical recording medium as at least two holograms,
wherein page data of separate files are not multiplexed, and are recorded
respectively in different positions in the optical recording medium.
2. (Currently Amended) A holographic recording method according to claim 1,
wherein the page data is multiple-recorded for each predetermined unit, and the page data in
the predetermined unit is page data that constitutes one file.
3. (Original) A holographic recording method according to claim 2, wherein
information is recorded in the optical recording medium, the information making the file
correspond to a recording area, in which the file is recorded.
4. (Original) A holographic recording method according to claim 2, wherein the
page data that represents head information is added to a front page of the file.

5. (Currently Amended) A holographic recording method according to claim 1, wherein if the page data included in ~~the one~~a file is divided to a plurality of blocks and the plurality of blocks are recorded, the ~~page data in the predetermined unit is~~ page data that constitutes one block of the plurality of blocks is multiple-recorded.

6. (Original) A holographic recording method according to claim 5, wherein information is recorded in the optical recording medium, the information making the file correspond to a recording area, in which the file is recorded.

7. (Original) A holographic recording method according to claim 5, wherein page data that represents head information is added to a front page of the file.

8. (Original) A holographic recording method according to claim 5, wherein page data that represents information on a recording area in which the block to be read next is recorded, is added to an end of each block if the file is divided to a plurality of blocks and the plurality of blocks are recorded.

9. (Original) A holographic recording method according to claim 5, wherein if the file is divided to a plurality of blocks and the plurality of blocks are recorded, the file is reallocated so that the file is re-divided to a smaller number of blocks.

10. (Currently Amended) A holographic recording method according to claim 1, wherein a polarization direction of ~~the~~a signal light beam is set parallel to a polarization direction of ~~the~~a reference light beam.

11. (Currently Amended) A holographic recording method according to claim 1, wherein a polarization direction of ~~the~~a signal light beam is set different from a polarization direction of ~~the~~a reference light beam.

12. (Currently Amended) A holographic recording method according to claim 1, wherein a polarization direction of ~~the~~a signal light beam is set orthogonal to a polarization direction of ~~the~~a reference light beam.

13. (Original) A holographic recording method according to claim 1, wherein the optical recording medium includes a photorefractive material.

14. (Original) A holographic recording method according to claim 1, wherein the optical recording medium includes a polarization sensitive material.

15. (Original) A holographic recording method according to claim 1, wherein the optical recording medium includes at least one type of polyester polymer.

16. (Original) A holographic recording method according to claim 15, wherein the at least one type of polymer includes an azobenzene structure in a side chain.

17-72. (Cancelled)

73. (Currently Amended) A holographic recording apparatus for multiple-recording a file including one or more page data in an optical recording medium as at least two holograms, comprising:

a light source for emitting a coherent light beam;

a stage that rotates or shifts an optical recording medium;

a light dividing and optical path changing unit that divides the coherent light beam to a light beam for a reference light beam and a light beam for a signal light beam, and that changes an optical path so that the reference light beam and the signal light beam are simultaneously irradiated onto the optical recording medium;

a spatial light modulator that is arranged in the optical path of the light beam for the signal light beam, that modulates the light beam for the signal light beam in accordance with a supplied recording signal for each page, and that generates the signal light beam for recording said each page of a hologram; and

a signal supply unit that supplies the recording signal for said each page to the spatial light modulator so that ~~page data is multiple-recorded for each predetermined unit~~page

data of separate files are not multiplexed, and are recorded respectively in different positions in the optical recording medium.

74. (Original) A holographic recording apparatus according to claim 73, further comprising:

an analyzer that transmits a component, in a predetermined polarization direction, of a diffracted light beam from said each page of the hologram recorded in the optical recording medium; and

a detector that detects intensities of transmitted light beams that are transmitted through the analyzer.

75. (New) A holographic recording method according to claim 1, wherein the multiple-recording uses any one of shift multiplexing, phase multiplexing, angular multiplexing, and wavelength multiplexing.

76. (New) A holographic recording apparatus for multiple-recording a file comprising one or more page data in an optical recording medium as at least two holograms, wherein page data of separate files are not multiplexed, and are recorded respectively in different positions in the optical recording medium.

77. (New) A holographic recording apparatus according to claim 76, wherein the multiple-recording uses any one of shift multiplexing, phase multiplexing, angular multiplexing, and wavelength multiplexing.

78. (New) A holographic recording apparatus according to claim 76, further comprising:

an analyzer that transmits a component, in a predetermined polarization direction, of a diffracted light beam from each of the pages of the holograms recorded in the optical recording medium; and

a detector that detects intensities of transmitted light beams that are transmitted through the analyzer.